DRAFT NOV, 0 6 1990

	CERCLIS IDENTIFICATION NUMBER	
STATE	SITE NUMBER	

F187-18 8 100 10.	JU		<u></u>	0.000.000
·				
	SITE LOCATION	. :		
NAME: Legal, common or descriptive name of site				•
IETRICHS INDUSTRIAL			· · · · · · · · · · · · · · · · · · ·	
ET ADDRESS, ROUTE or SPECIFIC LOCATION IDENTIFIE	ER			·
DECTRICHS STREET		719 6	CODE	TELEPHONE
			643	()
LITTLE YEARY		TOWNSHIP, RA	NGE, and	SECTION
ORDINATES: LATITUDE and LONGITUDE				
0° 50' 27 74° 02' 07"				
	OWNER/OPERATOR IDENTIFIC	ATION		
	OCCUAT	OB .		
WIER DANK + MARCARET NOTARAA	MOT	ARANGELD	CAR	-T 1/C
KANTY	OPERAT	OR ADDRESS		
WHER ADDRESS TO PENNSYLVANTA AVE.		1 2ND 5T	REEL	
IN ASWARDENALLIA	CITY	ADDLEBRO	oΥ	
MONTYALE	STATE			TELEPHONE
TATE ZIP CODE TELEPHONE	N		<u> 2 مام</u>	12011 391-0221
NZ III				
		•		
		a WNER/	OPERATOR	NOTIFICATION ON FILE
TYPE OF OWNERSHIP				
Ø PRIVATE		NONE		and all the
TEDERAL: Agency name	- \ \ r	CERCLA 103 C	, UNCONT	ROLLED WASTE SITE
STATE COUNTY		DATE:		
MUNICIPAL		RCRA 3001		
OTHER:		DATE:		
		,		
•				
	YEARS OF OPERAT	on		APPROXIMATE SIZE OF SITE
SITE STATUS				
	BEGINNING YEAR: 194	0	7-	76 Acres
☐ ACTIVE			0	
INACTIVE .	ENDING YEAR: 1961	<u> </u>		
	пикиоми		ľ	
Пикиоми			<u> </u>	
	SITE EVALUATIO	N		
AGENCY / ORGANIZATION NEDER / DIH	um/BPA	·		
INVESTIGATOR KAREN HIER	TNG		_	*.
CONTACT KEN KLOO				T (37) 35
ADDRESS 300 HORIZON CE	MTER CN 407	TRENTO	N N	US OXIA
(604) 584 - 42×0			· · · · · · · · · · · · · · · · · · ·	
DATE		14		
5/20/91				

Site Description and Operational History:

THE SUBJECT SITE IS LOCATED IN AN INDUSTRIEND ARCA OF LITTLE

FERRY, BERGEN COUNTY ON THE HACKENSACK RIVER. THE SUBJECT

SITE WAS THE LOCATION OF THE LITTLE FERRY SEWAGE TREATMENT

PLANT FROM APPROXIMATELY 1940 TO 1961 NO OTHER

OPERATIONS ARE KNOWN TO HAVE BEEN CONDUCTED ON SITE.

HE1961, 1972 AND 1974 ARRIVED PHOTOGRAPHS REVEALED

MANY AREAS OF SOLIC WASTE DEBRIS WITH MANY

OBJECTS WHICH APPEAR TO BE 35 GALLON DRIVES. DESTURBANCE

AND STRESSED VEGETATION WERE ALSO VISIBLE IN THE 1972

AND 1974 PHOTOGRAPHS. ONLY THREE DECIME THE

Probable Contaminants of Concern:

(Previous investigations; analytical data)

ON APREL 1, 1989 SOIL SWAMPIES WERE COLLECTED FROM SEVEN

LOCATIONS AND WERE ANALYZED FOR PETROLEUM HYDROCHEBONS

AND VOLATILE ORGANIC COMPOUNDS. NO VOCS WERE DETECTED

AT ANY OF THE SAMPLE LOCATIONS; PHE CONCENTRATIONS WERE

DETECTED TO SIM PPM DURING A APRIL 8, 1991 PRE-SAMPLING

ASSESSMENT READINGS GREATER THAN 1000 PPM WERE NOTED ON

THE OVA IN THE AREA VASIACENT, TO THE RIVER.

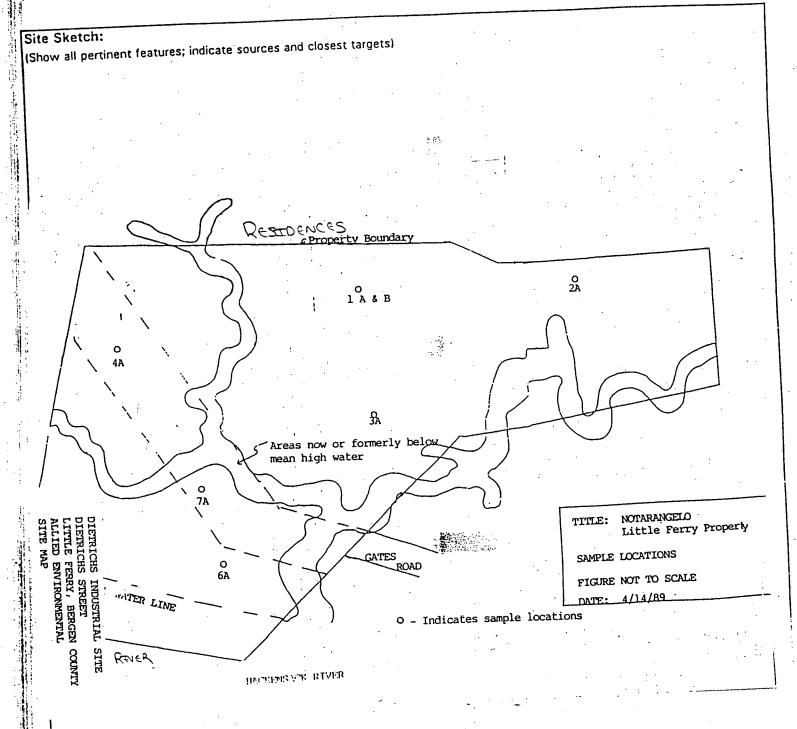
THE AREA MAY ALSO BE CONTAMINATED WITH METALS BECAUSE
SEWAGE SOMETIMES HAS METALS MESSICENTED WITH IT

THE CONTENTS OF THE DIZUVAS ARE UNKNOWN.

NOV 06 1990

DIETRICHS INDUSTIZAL

GENERAL INFORMATION (continued)



Source Descriptions:

- 1. DRUMS SEVERAL HUNDRED AT ANY ONE TEME DER MERINL PHOTOGRAPHS
- NO DRUMS ARE CHARENTY PRESENT
- 2 SURFACE EMPOUNDMENT USED FOR SEWAGE TREATMENT, ESTEMATE SIZE OF IMPOUNDMENT PER MERIAL PHOTOGRAPH IS 300, × 100,
- 3. CONTAMEDATED SOIL 1989 SOIL SAMPLENG FUDECUTES THAT SOIL IS CONTAMENATED WITH PHCE TWO SAMPLE LOCATIONS EXHIBETED LEVELS OF PILCS ABOVE NIDER ACTION LEVELS.

Waste Characteristics (WC) Calculations:

(See PA Table 1, page 5)

- 1. DRUMS APPROXEMATELY 300 DRUMS + 10 = 30
- 2. SURFACE IMPOUNDMENT 300'X100'= 30000 FT2 + 13=2308
- 3. CONTAMENATED SOIL 8.76 ACRES = 0.78 = 11,23

TOTAL = 2349.2

PA TABLE 1: WASTE CHARACTERISTICS (WC) SCORES

PA Table 1a: WC Scores for Single Source Sites and Formulas for Multiple Source Sites

1							MULTIPLE SOURCE
			7.	SINGLE SO	OURCE SITES (assigned WC so	ores,	SITES
T I E R	1	SOURCE TYPE		WC = 18	WC = 32	WC = 100	Formula for Assigning Source WQ Values
CONSTITUTE		N/A		≤ 100 lbs	> 100 to 10,000 lbs	> 10,000 lbs	lbs + 1
T ZASTESTREAM		N/A		≤500,000 lbs	>500,000 to 50 million lbs	>50 million lbs	Ibs ÷ 5,000
- A	十	Landfill		≤6.75 million ft ³ ≤250,000 yd ³	>6.75 million ft ³ to 675 million ft ³ >250,000 to 25 million yd ³	> 675 million ft ³ > 25 million yd ³	$ft^{2} \div 67,500$ $yo^{3} \div 2,500$ $ft^{2} \div 67.5$
	,	Surface impoundment Drums		≤6,750 ft ³ ≤250 yd ³ ≤1,000 drums	> 6.750 ft ³ to 675.000 ft ³ > 250 to 25,000 yd ³ > 1.000 to 100,000 drums	> 675,000 ft ³ > 25,000 yd ³ > 100,000 drums	yd³ ÷ 2.5 drums ÷ 10
1	L U	Tanks and non- drum containers		≤50,000 gallons	>50,000 to 5 million gallons	>5 million gallons >675 million ft ³	gallons \div 500 $fr^3 + 67,500$
	E	Contaminated soil		≤6.75 million ft³ ≤250,000 yd³	>6.75 million ft ³ to 675 million ft ³ >250,000 to 25 million yd ³	> 25 million yd ³ .	yd ³ ÷ 2,500
		Pile		≤6,750 ft³ ≤250 yd³	>6,750 ft ³ to 675,000 ft ³ >250 to 25,000 yd ³	> 675,000 ft ³ > 25,000 yd ³	$fr^{2} \div 67.5$ $yd^{3} \div 2.5$
		Landfill		≤340,000 ft ² ≤7.8 acres	>340,000 to 34 million ft ² >7.8 to 780 acres	>34 million ft ² >780 acres	$ft^2 \div 3,400$ acres $\div 0.078$
		Surface		≤1,300 ft² ≤0.029 acres	>1,300 to 130,000 ft ² >0.029 to 2.9 acres	> 130,000 ft ² > 2.9 acres	$ft^2 \div 13$ $acres \div 0.00029$
	A R	impoundment Contaminated soil	\	≤3,4 million ft ² ≤78 acres	>3.4 million to 340 million ft ² >78 to 7,800 acres	>340 million ft ² >7,800 acres	$ft^2 \div 34,000$ acres ÷ 0.78
The state of the s	E A	Pile*		≤1,300 ft² ≤0.029 acres	> 1,300 to 130,000 ft ² >0.029 to 2.9 acres	>130,000 ft ² >2.9 acres	$ft^2 \div 13$ $acres \div 0.00029$
	٠	Land treatment		≤27,000 ft² ≤0.62 acres	> 27,000 to 2.7 million ft ² > 0.62 to 62 scres	> 2.7 million ft ² > 62 acres	$ft^2 \div 270$ acres ÷ 0.0062

ton = 2.000 lbs =	1 yd3	= 4 drums	= 200 gailons
-------------------	-------	-----------	---------------

Use area of land surface under pile, not surface area of pile.

PA Table 1b: WC Scores for Multiple Source Sites

The second secon	
WQ Total	WC Score
>0 to 100	18
> 100 to 10.000	32
> 10.000	100

GROUND WATER PATHWAY GROUND WATER USE DESCRIPTION

Describe Ground Water Use Within 4-miles of the Site:

(Provide generalized stratigraphy; information on aquifers, municipal, and or private wells)

THE BRUNSWICK FORMATION OF THE NEWARK GROUP IS COMPOSED OF MUDSTONE, SILTSTONE AND SANDSTONE AND IS THE MOST IMPORTANT BEDROCK. AROUTER IN THE HACKENSACK RIVER BASIN. WATER OCCUPS IN THIS FORMATION IN A NETWORK OF INTERCONNECTED OPENINGS. THE ZONE FORMED ALONG JOINIS, FRACTURES AND SOLUTION OPENINGS. THE ZONE IN THE BRUNSWICK FORMATION THAT CONTAINS FRESH-WATER. BEARING OPENINGS IS GENERALLY LESS THAN 200 FEET FITTER IN THE MATER THE MATER TO THE MATER FROM THE STOCKTON AND LOCKATONG FORMATIONS OF THE HACKENSACK RIVER. THE STOCKTON AND HACKMATONG FORMATIONS OF THE NEWARK GROUP HAVE VERY WATER. HERETAL EXTENT AND ARE NOT IMPORTANT AQUITERS IN THE BASIN.

THERE ARE NO PUBLIC SUPPLY WELLS WITHIN I WILLS OF THE SITE.

THERE ARE IL PUBLIC SUPPLY WELLS WITHIN I WILLES OF THE SITE.

BELONGING TO HACKENSHICK WATER COMPANY, LODI AND WHILING; HOWEVER

THESE WELLS WELL INDI I'M SERVICE DUE TO OPERATIONAL CONSIDERATIONS

AND YOUNTILE ORGANIZ CONTAVILNATION THE WATER COMPANIES PURCHASE

WATER FROM THE PASSAIC VALLEY WATER COMMISSION

THERE ARE SIX KNOWN PETUNTE POTSAGE WELLS WITHIN I MILE OF THE SITE.

Show calculations of ground water drinking water populations:

0- 1/4 mile - 0

14-42 mile - 0 12-1 mile - 5 private wells x 2.5 people/well = 12.5 people

1-2 Miles, 2-3 MILES, 3-4 MILES - O NO KNOWN PRIVATE WELLS - WATER IS SUPPLIED BY THE HACKENSWICK WATER COMPANY.

ALL OF HACKCUSACK WATER COMPANY'S WELLS WETHEN 4 WILLS HRE NOT CURRENTLY IN SERVICE.

1101 00 1330

The second secon

GROUND WATER PATHWAY CRITERIA LIST

Site Name: DIETRICHS _ 10005 -Date:

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

∮The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the well that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

			GROUND WATE	HPA	I HAA	~ 1	TARCETS
			SUSPECTED RELEASE				PRIMARY TARGETS
,	N o	U n k c o		Y •	N o	Dexco\$c	
/		3	Are sources poorly contained?	0	2		Is any drinking-water well nearby?
	0		Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)?	а	ď	ر ا	Is any nearby drinking-water well closed?
]	0	ď	Is waste quantity particularly large?	٥	а	₫	Has foul-tasting or foul-smelling water been reported by any nearby drinking-water users?
-∕	٥		Is precipitation heavy and infiltration rate high?	0	∵ હ∕		Do any nearby wells have a large drawdown or high production rate?
_	ø.	0	Is the site located in an area of karst terrain?		ď	. 0	Are drinking-water wells located between the sit and other wells that are suspected to be expose to hezardous substances?
d	0	-	Is the subsurface highly permeable or conductive?	0		٥	Does any circumstantial evidence of ground wat or drinking water contamination exist?
n	ď	0	Is drinking water drawn from a shallow aquifer?		ď		Does any drinking-water well warrant sampling?
_ 			Are suspected contaminants highly mobile in ground water?		٥	-	Other criteria?
J	₫	5	Does any circumstantial evidence of ground water or drinking water contamination exist?		₫	•	PRIMARY TARGET(S) IDENTIFIED?
	d		Other criteria?				
_ বে	/ m	•	SUSPECTED RELEASE?				

Summarize the rationale for suspected release (attach an additional page if necessary): There has been documented on site soft contamination. The condition and content of the Disums on site is unknown.	
The sewage treatment impoundment may Have Been Unitales.	
Summarize the rationale for Primery Targets (attach an additional page if necessary): The closest private potable well is 0.50 mile from the site and is not the closest public well as 2.2 miles From the site and is not currently used.	+

GROUND WATER PATHWAY SCORESHEET

Pathway Characteristics	
Do you suspect a release (see Ground Water Pathway Criteria List, page 7)?	Yes No
Is the site located in karst terrain?	Yes No
Depth to aquifer:	(t
Distance to the nearest drinking-water well:	<u> ೨५೦ಲ (t</u>)

Depth to aquirer: Distance to the nearest drinking-water well:		<u> </u>	
	A	B.	
LIKELIHOOD OF RELEASE	Suspected Release	No Suspected Release	References
 SUSPECTED RELEASE: If you suspect a release to ground water (see page 7), assign a score of 550, and use only column A for this pathway. 	550	1500 w 340j	
 NO SUSPECTED RELEASE: If you do not suspect a release to ground water, and the site is in karst terrain or the depth to aquifer is 70 feet or less, assign a score of 500; otherwise, assign a score of 340. Use only column B for this pathway. 		-	
LR =	550		
TARGETS		•	
3. PRIMARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you suspect have been exposed to hazardous substances from the site (see Ground Water Pathway Criteria List, page 7).	0		
4. SECONDARY TARGET POPULATION: Determine the number of people served by drinking water from wells that you do NOT suspect have been exposed to hazardou substances from the site, and assign the total population score from PA Table 2. Are any wells part of a blended system? Yes No If yes, attach a page to show apportionment calculations.	(SO, 20, 16, 9, 5, 3, 2, ar 0)	120, 18 9, 5 3 1, × JI	
5. NEAREST WELL: If you have identified any Primary Targets for ground water, assign a score of 50; otherwise, assign the highest Nearest Well score from PA Table 2. If no drinking-water wells exist within 4 miles, assign a score of zero.	9	[20, 5, ± 3]	
6. WELLHEAD PROTECTION AREA (WHPA): Assign a score of 20 if any portion of a designated WHPA is within ¼ mile of the site; assign 5 if from ¼ to 4 miles.	5	5	
7. RESOURCES: A score of 5 is assigned.	5	5	,
Τ =	20		
WASTE CHARACTERISTICS	٠.		
8. A. If you have identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part 8 of this factor.	[100 ≠ 32]	(100)) = 41	./
If you have NOT identified any Primary Targets for ground water, assign the waste characteristics score calculated on page 4.	32		
WC =	32		

GROUND WATER PATHWAY SCORE:

LR x T x WC 82,500 4.3

.

PA TABLE 2: VALUES FOR SECONDARY GROUND WATER TARGET POPULATIONS

PA Table 2a: Non-Karst Aquifers

				PAID	DIC									1
			***************************************		Рор	ulation Ser	ved by W	alls Within	Distance	Category	30,001	100,001	n - Inting	(
	·	Nearest Well	1 10	11	31 (o	101	301 to	1,001 to 3,000	to 10,000	to 30,000	to 100,000	to 300,000	Population Value	
Distance From Site	Population	(choose highest)	10	30	,100 5	300	1.000 52	163	521	1,633	5,214	16,325	0	
0 to ¼ mila	0	20	1	. 2	3	10	32	101	323	1,012	3,233	10,121		
> % to % mile	0	18	1		2	5	17	52	167	522	1,668	l		
>½ to 1 mile	12.5	3			1	3	9	29	94	294	939	2,938	0	
>1 to 2 miles	0	5		1	1	2	7	21	68	212	678	1,306	0_	
> 2 to 3 miles	6	2			1	1	4	13	42	131	417		\	
>3 to 4 miles		+	+									Score =		
	Nearest Well	=	<u>.</u>			ah. Kai	et Anuif	ers						_

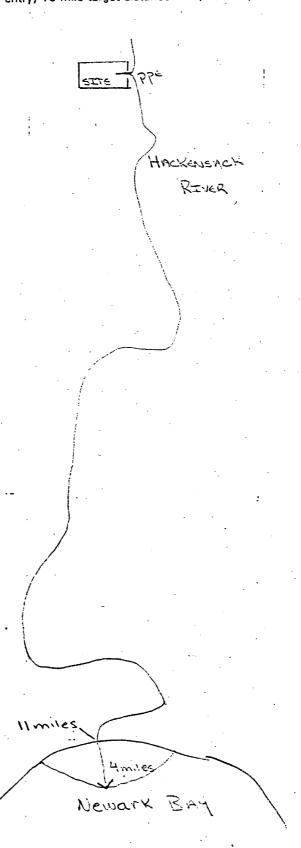
PA Table 2b: Karst Aquifers

	. •				PA	I BDIE Zi), ((0.0)								l
ļ			Nearest Well	1	11 to	70ps	dation Ser 101	ved by We 301 to	1,001	3,001 to 10,000	Category 10,001 to 30,000	30,001 to 100,000	100,001 to 300,000	Population Value	
	Distance from Site	Population	(use 20 for karst)	to 10	30	100	300	1,000	3,000 163	521	1,633	5,214	16,325		
•	O to % mile		20	- 1	1	3	16	32	101	323	1,012	3,233	10,121		
j	> % to % mile		20	1	1	3	8	26	82	261	816	2,607	8,162		
•	> ½ to 1 mile		20	1.	1	3	8	26	82	261	816	2,607	8,162		
	> 1 to 2 miles > 2 to 3 miles		20	1		3	8	26	82	261	816	2,607	8,162		4
-	>3 to 4 miles		20	1	1 1	3					,		Score =		_
			. 1	1									•		

Nearest Well =

Provide a Sketch of the Surface Water Migration Route:

(include runoff route, probable point of entry, 15-mile target distance limit, intakes, fisheries, and sensitive environments)



SURFACE WATER PATHWAY CRITERIA LIST

Date: Way 31, 1991

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release and identifying primary targets. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release or to identify primary targets. This chart will record your professional judgment in evaluating these factors.

The "Suspected Release" section of the chart guides you through evaluation of some site, source, and pathway conditions to help hypothesize whether a release from the site is likely. If a release is suspected, use the "Primary Targets" section to guide you through evaluation of some conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of targets you feel may be considered "primary." In the "Primary Targets" section on this sheet, record the responses for the target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

			SURFACE WAT	ER PA	THM	AY	
			SUSPECTED RELEASE				PRIMARY TARGETS
<u> </u>	N o) c x c o }		Y •	0	2 % 0 3 K 3 C	
			Is surface water nearby? Is waste quantity particularly large? Is the drainage area large? Is precipitation heavy or infiltration rate low? Are sources poorly contained or prone to runoff or flooding? Is a runoff route well defined (e.g., ditch or channel leading to surface water)? Is vegetation stressed along the probable runoff path? Are suspected contaminants highly persistent in surface water? Are sediments/water unnaturally discolored? Is wildlife unnaturally absent? Has deposition of waste into surface water been observed? Is ground water discharge to surface water likely? Is there any circumstantial evidence of surface water contamination?				Is any target nearby? If yes: Drinking-water intake Fishery Sensitive environment Has an intake, fishery, or recreational area been closed? Is there any circumstantial evidence of surface water contamination at or downstream of a target? Does any target warrant sampling? If yes: Drinking-water intake Fishery Sensitive environment Other criteria? PRIMARY INTAKE(S) IDENTIFIED? PRIMARY FISHERY IDENTIFIED? PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED?
			Other criteria?				

Summarize the rationale for suspected release (attach an additional page if necessary):

SURFACE WATER IS WORTED ABJACOM TO THE SITE.

SURFACE WATER IS TROAL CAUSING FLOODING OF THE SITE.

Summarize the rationale for Primary Targets (attach an additional page if necessary):

The site is located In a palustrane broad-leaved decedous scrubshrus

AND A PALUSTRANE EMERGENT WETLANDS ENVERONMENT. THERE IS ALSO ESTUMBENCE

WETLANDS WITHIN 700 FEET OF THE SITE. THE HAZVENEACK BUER IS A FISHERY.

SURFACE WATER PATHWAY TER THREAT SCORESHEET

	\sim 12	4	31	١,	14.4	١
-						

	LIKELIHOOD OF RELEASE AND DI					/	•.
	Do you suspect a release (see Surface Water Pa	thway Cr	iteria List, page 1	1)7	Yes _	No	•
	Distance to surface water:				ī	10 11 11 11 11 11 11 11 11 11 11 11 11 1	
		ممنامانامم	water intake?	n	niles	210 41	
	What is the downstream distance to the nearest	t arinking: itive envir	onment? 0	miles			,
	nearest fishery? miles nearest sensi				A	В	
	•			Su	spected	No Suspected	
				1	Release	Release	References
	HOOD OF RELEASE		4.41		(550)		•
1. SU	SPECTED RELEASE: If you suspect a release to sur	face wate	er (see page 11),		550		
ass	ign a score of 550, and use only column A for this	patition				{500,400,300 er 100}	•
1 NO	SUSPECTED RELEASE: If you do not suspect a rel	lease to s	urface water, and	i			
the	distance to surface water is 2,500 feet or less, as	sign a sco	ore of 500; other-				
wi	distance to surface water is 2,500 feet of less, as se, assign a score from the table below. Use only c	column B	idi tilis patrivoy.				
	Floodplain	Score					Ĭ.
	Site in annual or 10-yr floodplain	400					
	Site in 100-yr floodplain	300	*				
	Site in 500-yr floodplain Site outside 500-yr floodplain	100					ļ
	Site obtaine 555 /				[550]	[500,400,300 at 100]	
		. •	LF	3 =	550	<u> </u>	1
	KING WATER THREAT TARGETS			_ 		. I tama dala asa sa sa la distri	1
DRIN	etermine the water body types, flows (if applicable)	and num	ber of people ser	rved			*
3. D	etermine the water body types, flows (if applicable) all drinking-water intakes within the 15-mile targe all drinking-water intakes within the 15-mile targe	t distance	limit. If there ar	e no			·
4	The state of the s	(, assign,		ore			al 8
01	5 at the bottom of this page (Resources only) and	proceed t					
1	ntake Name Water Body Type	Flow	, People Serv	ed			
1 F	Rake Hamo		cfs	-			
-			cfs				
. -		• • •	cfs	_			
L							\$
4 5	RIMARY TARGET POPULATION: If you suspect an	ny drinking	g-water intake list	Vater			
					•		
1 6	Pathway Criteria List, page 111, list the intake harro	:(S) and c					
	core based on the number of people served.	•					
			people x	10 =			
.				., L			
_	SECONDARY TARGET POPULATION: Determine t	he Secon	dary Target				
1		Julia (10119 -		lei			
1	Population score from PA Table 3 bases on the pro- from intakes that you do NOT suspect have been ex	xposea to	nazaruous	1		l	
l l						1	
	substances from the site.						
	substances from the site.	Yes	No				
	substances from the site. Are any intakes part of a blended system? If yes, attach a page to show apportionmen	Yes nt calculat	No ions.		[50,20,10,2,1, o	Ol (20,10,2,1, or 0	-
	Are any intakes part of a blended system? If yes, attach a page to show apportionmen	Yes nt calculat	No ions. ts for the drinking	g ntake	[50,20,10,2,1, a	Ol (20, 10.2, 1, as 0	
6.	substances from the site. Are any intakes part of a blended system? If yes, attach a page to show apportionmen NEAREST INTAKE: If you have identified any Prim	Yes nt calculat hary Targe	No ions. ts for the drinking sign the Nearest I	g ntake target	[50,20,10.2,1, cr	OI (20,10.2.1, as 0	
6.	Are any intakes part of a blended system? If yes, attach a page to show apportionmen NEAREST INTAKE: If you have identified any Prim water threat (Factor 4), assign a score of 50; other score from PA Table 3. If no drinking-water intake	Yes nt calculat hary Targe	No ions. ts for the drinking sign the Nearest I	g ntake target			
6.	substances from the site. Are any intakes part of a blended system? If yes, attach a page to show apportionmen NEAREST INTAKE: If you have identified any Prim	Yes nt calculat hary Targe	No ions. ts for the drinking sign the Nearest I	g ntake target	50,20,10.2.1.	01 (20, 10.2.1, = 0	
6.	Are any intakes part of a blended system? If yes, attach a page to show apportionmen NEAREST INTAKE: If you have identified any Prim water threat (Factor 4), assign a score of 50; other score from PA Table 3. If no drinking-water intake	Yes nt calculat hary Targe	No ions. ts for the drinking sign the Nearest I	g ntake target	(5)	151	

PA TABLE 3: VALUES FOR SECONDARY SURFACE WATER TARGET POPULATIONS

- 144 · · · · · · · · · · · · · · · · · ·		Nearest			F	opulation	Sarvod by	Intakus V	Nithin Flov	v Catagor	γ			
Surface Water Body Flow		Intake	1	31	101	301	1,001	3,001	10,001	30,001 to	100,001 to	300,001 to	1,000,001 to	Population
Characteristics (see PA Table 4)	Population	(choose highest)	to 30	to 100	10 300	to 1,000	10 3,000	10,000	30,000	100,000	300,000		3,000,000	Value
<10 cls	0	20	2	5	16	52	-163	521	1,633	5,214	16,325	52,136	163,248	
10 to 100 cfs		2	1	1	2	5	16	52	163	521	1,633	5,214	16,325	`
> 100 to 1,000 cfs		1 .	0	0	1	1	_2	5	16	52	163	521	1,633	
> 1,000 to 10,000 cfs		٥	0	0 ;	0	0	1	1	2	5	16	52	163	
> 10,000 cfs or ,	:	, o	0	o	0	0	0	0	1	1	2	5	16	
Grout Lukes		. 10	,	3	8	26	82	261	816	2,607	8,162	26,068	81,663	
3-mile Mixing Zone Near	est Intake =				1			. I				-	Score =	٥

PA TABLE 4: SURFACE WATER TYPE / FLOW CHARACTERISTICS WITH DILUTION WEIGHTS FOR SECONDARY SURFACE WATER SENSITIVE ENVIRONMENTS

Type of Sun Water Body Type	face Water Body OR Flow Characteristics	Dilution Weight
minimal stream small to moderate stream moderate to large stream large stream to river large river	flow less than 10 cfs flow 10 to 100 cfs flow greater than 100 to 1,000 cfs flow greater than 1,000 to 10,000 cfs flow greater than 10,000 cfs	1 0.1 N/A N/A N/A
3-mile mixing zone of quiet flowing streams or rivers	flow 10 cfs or greater	N/A
constal tidal water (harbors, sounds, buys, etc.), ocean, or Great Lakes	N/A	N/A

Date:

1851,18 HERVA

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SURFACE WATER PATHWAY (continued) HUMAN FOOD CHAIN THREAT SCORESHEET

31 00 100	HUMAN FOOD CHAIN TIME	Α	В	•
		Suspected Release	Release	References
LIKELIHOOD OF RELEASE	od of Release score from page 12. LR	= 550	[500,400,300 = 100t	
inter the Surface Water Circums		:	•	• • • • • • • • • • • • • • • • • • • •

HUMAN FOOD CHAIN THREAT TARGETS

8. Determine the water body types and flows (if applicable) for all fisheries within the 15-mile target distance limit. If there are no fisheries within the target distance limit, assign a Targets score of 0 at the bottom of this page and proceed to page 15.

	Water Body Type Flow
Fishery Name	RIVER 71000-10000 cfs
HACKENSACK R-VER	BAY 710 cfs
Newark BAY	cfs
	cfs
	cfs

9. PRIMARY FISHERIES: If you suspect any fishery listed above has been exposed to hazardous substances from the site (see Surface Water Criteria List, page 11), assign a score of 300 and do not evaluate Factor 10. List the Primary Fisheries:

assign a score of 300 and do not evaluate Factor 10. List the trans-
HACKEMONAK ROUER

10. SECONDARY FISHERIES: If you have not identified any Primary Fisheries, assign a Secondary Fisheries score from the table below using the LOWEST flow at any fishery within the 15-mile target distance limit.

Secondary Fisheries Score
210
30
12
12

			• .
	300		
ł	(210,30,12 or 0)	(210,30,12, or v	Я
	\	or 01 1210,30,12	o OI
	1303,210,30,12	or 01 1210,30,121	-"
=	300		

SURFACE WATER PATHWAY (continued) ENVIRONMENTAL THREAT SCORESHEET

	·				A	В	
LIKE	LIHOOD OF RELEA	NSE	· .		Suspected Release	No Suspected Release	Ref
	the Surface Water Lik		core from page 12.	LR =	550	(500,400,300 or 100)	·
FNV	IRONMENTAL THE	REAT TARGETS					
s: a: li:	ensitive environments	s within the 15-mile sensitive environme	(if applicable) for all surface w target distance limit (see PA Ta ents within the 15-mile target d ttom of this page, and proceed	istance to			•
Γ	Environment Name		Water Body Type Flo	w			
	HACKENSACK I	\$=14.Q	P=VEB 71000-1	cfscfscfscfscfscfscfscfscfscfscfs	(300 or 0)		
r	mont listed above has	s been exposed to ha a List, page 11), ass	f you suspect any sensitive envizardous substances from the sign a score of 300 and do not e ironments:	166 1266	300		
							Į .
	SECONDARY SENSIT A. For Secondary Se 100 cfs or less, a this factor:	nsitive Environment	S: s on surface water bodies with ws, and do not evaluate part B	flows af of			
	A. For Secondary Se 100 cfs or less, a this factor:	nsitive Environment ssign scores as follo Dilution Weight	s on surface water bodies with	flows of of			
	A. For Secondary Se 100 cfs or less, a this factor:	nsitive Environment ssign scores as follo 	s on surface water bodies with ws, and do not evaluate part B Environment Type and Value (PA Tables 5 and 6)	<u> </u>			
	A. For Secondary Se 100 cfs or less, a this factor: Flow cfs	nsitive Environment ssign scores as follo 	s on surface water bodies with ws, and do not evaluate part B Environment Type and Value (PA Tables 5 and 6)	Total			
	A. For Secondary Se 100 cfs or less, a this factor:	nsitive Environment ssign scores as follo Dilution Weight (PA Table 4)	Environment Type and Value (PA Tables 5 and 6)	Total			
	A. For Secondary Se 100 cfs or less, a this factor: Flow cfs cfs	nsitive Environment ssign scores as follo Dilution Weight (PA Table 4)	Environment Type and Value (PA Tables 5 and 6)	Total			
	A. For Secondary Se 100 cfs or less, a this factor: Flow cfs cfs cfs	nsitive Environment ssign scores as follo Dilution Weight (PA Table 4)	Environment Type and Value (PA Tables 5 and 6)	Total			

Site Name: DIETOICHS INDUSTRY!

Date: MAY 31, 1991

PA TABLE 5: SURFACE WATER AND AIR SENSITIVE ENVIRONMENTS VALUES

To incompate	ssigned Value
Sensitive Environment Critical habitat for Federally designated endangered or threatened species	
Critical habitat for redurany dusty.	
Marine Senctuary	1 1
National Park	
Designated Federal Wilderness Area Ecologically important areas identified under the Coastal Zone Wilderness Act Ecologically important areas identified under the Coastal Zone Wilderness Act	
Ecologically important areas identified under the Coastal Zone Wilderness Act Sensitive Areas identified under the National Estuary Program or Near Coastal Water Program of the Clean Water Act Sensitive Areas identified under the National Estuary Program of the Clean Water Act (subareas in lakes or entire small lakes)	
Sensitive Areas identified under the National Estuary Program or Near Coastal Water Flogram of entire small lakes). Critical Areas Identified under the Clean Lakes Program of the Clean Water Act (subareas in lakes or entire small lakes).	
Critical Areas Identified under the Clean Eakos Frogramme	
National Monument	
National Seashore Recreation Area	75
National Lakeshore Recreation Area Habitat known to be used by Federally designated or proposed endangered or threatened species	, •
Habitat known to be used by Federany designated or property	
National Preserve	
National or State Wildlife Refuge	
Unit of Coastal Barrier Resources System	
Federal land designated for the protection of natural ecosystems	•
Administratively Proposed Federal Wilderness Area	
Snawning areas critical for the maintenance of historianism special processing a river system	
Spawning areas critical for the maintenance of fish/shellfish species within a new system. Migratory pathways and feeding areas critical for the maintenance of anadromous fish species in a river system.	
Terrestrial areas utilized by large or dense aggregations	
National river reach designated as recreational	50
National river reach designated as recreations Habitat known to be used by State designated endangered or threatened species Habitat known to be used by State designated endangered or threatened status	
Habitat known to be used by State designated endangered of threatened status Habitat known to be used by a species under review as to its Federal endangered or threatened status	
Coastal Barrier (partially developed)	
S-describe designated Scenic or Wild River	25
State land designated for wildlife or game management	
State designated Scenic or Wild River	
State designated Natural Area	
State designated Natural Area Particular areas, relatively small in size, important to maintenance of unique biotic communities Particular areas, relatively small in size, important to maintenance of aquatic life under the Clean Water Act	5
Particular areas, relatively small in size, important to maintenance of aquatic life under the Clean Water Act State designated areas for the protection/maintenance of aquatic life under the Clean Water Act	e Water Pathway
Of	
PA Table 9 (Air	. Onebugget

PA TABLE 6: SURFACE WATER WETLANDS FRONTAGE VALUES

Total Length of Wetlands	Assigned Value
	0
Less than 0.1 mile	25
0.1 to 1 mile	50
Greater than 1 to 2 miles	75
Greater than 2 to 3 miles	100
Greater than 3 to 4 miles	150
Greater than 4 to 8 miles	250
Greater than 8 to 12 miles	250 350
Greater than 12 to 16 miles	350 450
Greater than 16 to 20 miles	,
Greater than 20 miles	500

NOV 0.6 1990

SURFACE WATER PATHWAY (concluded) WASTE CHARACTERISTICS, THREAT, AND PATHWAY SCORE SUMMARY

	Α	В
WASTE CHARACTERISTICS	Suspected Release	No Suspected Release
14. A. If you have identified ANY Primary Targets for surface water (pages 12, 14, or 15), assign the waste characteristics score calculated on page 4, or a score of 32, whichever is GREATER; do not evaluate part B of this factor.	32	
B. If you have NOT identified any Primary Targets for surface water, assign the waste characteristics score calculated on page 4.	(100,32, or 18)	(100.32, ar 18)
WC =	32	

Threat	Likelihood of Release (LR) Score (from page 12)	Targets (T) Score	Pathway Waste Characteristics (WC) Score (determined above)	Threat Score LR x T x WC /82,500
Drinking Water	55 <i>0</i>	5	32	adjust to a meanum of 100
Human Food Chain	550	300	32	64.0
Environmental	550	300	32	(O , O

SURFACE WATER PATHWAY SCORE

(Drinking Water Threat + Human Food Chain Threat + Environmental Threat)

(100

SOIL EXPOSURE PATHWAY CRITERIA LIST

Site Name: VIETRICHS INCHES

Date: VYNNY 31, 1991 4

This chart provides guidelines to assist you in hypothesizing the presence of a resident population. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize resident populations. This chart will record your professional judgment in avaluating this factor.

Use the resident population section to guide you through evaluation of some site and source conditions that will help identify targets likely to be exposed to hazardous substances. You may use this section of the chart more than once, depending on the number of nearby people you feel may be considered part of a resident population. Record the responses for the resident population target that you feel has the highest probability of being exposed to hazardous substances.

Check the boxes to indicate a "yes", "no", or "unknown" answer to each question.

	SOI	L EXPOSUR	E PA	HVV	<u> </u>	
						RESIDENT POPULATION
,	SUSPECTED CONTAMINATION			N	U	
			•	ö	Č K	
					.	<u>.</u>
	Surficial contamination is assumed.		6			Are there residences, schools, or day care facilities on or within 200 feet of areas of suspected contamination?
			4	٥	<u> </u>	Are residences, schools, or day care facilities located on adjacent land previously owned or leased by the site owner/operator?
			Ø		٥	Is there an overland migration route that might spread hazardous substances near residences, schools, or day care facilities?
			· ·a		d	Are there any reports of adverse health effects from onsite or adjacent residents or students, exclusive of apparent drinking water or air contamination problems?
				4		Does any offsite property warrant sampling?
				d 		Other criteria?

Summarize the retionale for resident population (atta	
•	

DRAFT

Date:

107	0.3	1990

	SOIL EXPOSURE PATHWAY SCORESHI	EET			
/ 0 3 <u>19</u>	Pathway Characteristics				
i	in in 200 ft of areas of suspected contamina	ation?	Yes	No	
Do	any people live on or within 200 it of areas any people attend school or day care on or within 200 it of areas		\	No /	
Do	of suspected contamination?		Yes	~_	•
	of suspected contamination? the facility active? Yes No If yes, estimate the number	r of wo	rkers:		•
is	the facility actives 100		Α Α	В	
			Suspected	No Suspected	
			Contamination	Contamination	Referen
KELIHOOI	D OF EXPOSURE		. (550)		
TALLITO G.	- rion is assumed.				
SUSPECT	TED CONTAMINATION: Surficial contamination is assumed.	LE =	550		
A score of	of 550 is assigned.				1
				•	•
	TARCETS				1
ESIDENT	POPULATION THREAT TARGETS				
		nces			
	IT POPULATION: Determine the number of people occupying reside ding school or day care on or within 200 feet of areas of suspected ding school or day care. Bathway Criteria List, page 18).		. L		
			140		
contami	ding school or day care off of Widin 2007. nation (see Soil Exposure Pathway Criteria List, page 18).	k 10 =	150 = 01		
		31			
55000	NT INDIVIDUAL: If you have identified any Resident Population (Fac	tor 41,	100		
RESIDE	a score of 50; otherwise, assign a score of 0.		115, 10, 5, a 0		
assign a	s score of 50, outstanding	nber of			
WORKE	RS: Assign a score from the following table based on the total num				
workers	RS: Assign a score from the following table basses as at the facility and nearby facilities with suspected contamination:				
77017010	Number of Workers Score	1	10		
}	0 0	;			*
1	1 to 100 5		1		
1	101 to 1,000 10		1		%
	>1,000 15	*			
		e 7			
F TERRE	STRIAL SENSITIVE ENVIRONMENTS: Assign a value from PA Table	nected			
for eac	STRIAL SENSITIVE ENVIRONMENTS: Assign a voice when a stream of suspensions that is located on an area of suspensions that is located on an area of suspensions.				
contan	nination:				
	Terrestrial Sensitive Environment Type Value	-			
	Terrestrial Sansitive Environment				
		1			
		} ·			**
		Sun	7 =		30536 4 05
			151		
	and the sectioned		5		
6. RESO	URCES: A score of 5 is assigned.				
			r = 195		
		: '			
	· · · · · · · · · · · · · · · · · · ·				
WASTE	CHARACTERISTICS		(100, 32, œ	181	
		W	C= 32	_	
7. Assig	gn the waste characteristics score calculated on page 4.				
				at lixid	
·			(m.or	ect to a measurem at 1009	
	LE X T X	wc_		41.6	١
RESIDE	INT POPULATION THREAT SCORE: LE X X 82,500		1	71.4	
•			<u> </u>		
	TON THEFAT COME.		Ì	2	1
NEARE	BY POPULATION THREAT SCORE:			·	
Assign a	a score of 2	\	_ :	at Itali .	
-		•	ا مر	opect to a measurement of 1031 -	
			1	110 /	

SOIL EXPOSURE PATHWAY SCORE:

Resident Population Threat + Nearby Population Threat

NUSA 31112 1

PA TABLE 7: SOIL EXPOSURE PATHWAY TERRESTRIAL SENSITIVE ENVIRONMENT VALUES

		Assigned Value
Terrestrial Sensitive Environment		100
Terrestrial critical habitat for Federally designated endangere	ed or threatened species	100
National Park		
Designated Federal Wilderness Area		
National Monument		75
Terrestrial habitat known to be used by Federally designated	d or proposed threatened or endangered species	/3
National Preserve (terrestrial)	'	
National or State terrestrial Wildlife Refuge		•
Federal land designated for protection of natural ecosystem	s .	
Administratively proposed Federal Wilderness Area	•	
Terrestrial areas utilized by large or dense aggregations of a	nimals (vertebrate species) for breeding	
Terrestrial babitat used by State designated endangered of	threatened species	50
Terrestrial habitat used by species under review for Federal	ly designated endangered or threatened status	25
State lands designated for wildlife or game management		25
State decignated Natural Areas		
Particular areas, relatively small in size, important to mainte	enance of unique biotic communities	

LIER FINE WILLIAM

...AIR PATHWAY CRITERIA LIST

Site Name: Tremerous Tradeser

This chart provides guidelines to assist you in hypothesizing the presence of a suspected release. It is expected that not all of this information will be available during the PA. Also, these criteria are not all-inclusive; list any other criteria you use to hypothesize a suspected release. This chart will record your professional judgment in evaluating this factor.

The "Suspected Release" section of the chart guides you through evaluation of some conditions to help hypothesize whether a release from the site is likely. For the Air Pathway, if a release is suspected, "Primary Targets" are any residents, workers, students, or sensitive environments within % mile of the site.

Check the boxes to indicate a "yes", "no", or "unknown" enswer to each question. If you check the "Suspected Release" box as "yes", make sure that you assign a Likelihood of Release value of 550 for the pathway.

			AIR PAT	HWAY
			SUSPECTED RELEASE	PRIMARY TARGETS
Y	N o	Unkco		
3	₫	~ 	Have odors been reported?	If you suspect a release to air, evaluate all populations and sensitive environments within ¼ mile (including those onsite) as Primary Targets.
a	ď		Has a release of hazardous substances to the air been directly observed?	
<u>.</u>	ď	<u> </u>	Are there any reports of adverse health effects (e.g., headaches, nauses, dizziness) potentially resulting from migration of hazardous substances through the air?	
Ġ	₫	0	Is there any circumstantial evidence of an air release?	
	6		Other criteria?	
П		•	SUSPECTED RELEASE?	

Summarize the rationale for suspected release (attach an additional page if necessary):

1891,15 / AMY

JV U 5 1990 Backway Characteristics			\$1 an .
Pathway Characteristics		No /	
Do you suspect a release (see Air Pathway Criteria List, page 21)?	Yes		
Do you suspect a release (see All 1 alliver) Street	₽	MACCINE IT	
Distance to the nearest individual:			
	Α	В	
<u> </u>	spected	No Suspected	% .
		Release	References
WELLING OF BELEASE	Release	71070030	71070707000
LIKELIHOOD OF RELEASE	(550)		
SUSPECTED RELEASE: If you suspect a release to air (see page 21), assign a	1		
1. SUSPECTED RELEASE: If you suspect a release to all 1866 page 2 177	1		
score of 550, and use only column A for this pathway.	100000000000000000000000000000000000000	(SOO)	
Score of 550, and 550 ow,		•	
2. NO SUSPECTED RELEASE: If you do not suspect a release to air, assign a		日 ろ つ	,
2. NO SUSPECTED RELEASE. If you do not this pathway		500	
score of 500, and use only column B for this pathway.			
		l ~	1
LR =		500	
<u> </u>		<u> </u>	1
TARGETS		non-Bessélő (Adél) I. Bahan (Adél)	1 .
3. PRIMARY TARGET POPULATION: Determine the number of people subject			
3. PRIMARY TARGET POPULATION. Determine the air (see Air			1
, and a second of hazardous substances unough the second			·
Pathway Criteria List, page 21).			1
		1	
4. SECONDARY TARGET POPULATION: Determine the number of people		1,00	
4. SECONDARY TARGET PUPULATION. Determine the total population score from		128	1
4. SECONDARY TARGET POPULATION. Security the total population score from within the 4-mile target distance limit, and assign the total population score from		1	<u> </u>
On Table 9	(50,20,7,2,1, ar 0)	[20,7,2,1, ar Ol	7
174 14410 0	150, 20, 7, 2, 1, 6, 6,		ł
5. NEAREST INDIVIDUAL: If you have identified any Primary Targets for the air		100	! ·
5. NEAREST INDIVIDUAL: If you have identified any thinkers Nearest Individual		20	1
5. NEAREST INDIVIDUAL: If you have identified any pathway, assign a score of 50; otherwise, assign the highest Nearest Individual			_
patrivary, about 1		anteres matricia - M	
score from PA Table 8.			:-
6. PRIMARY SENSITIVE ENVIRONMENTS: Sum the sensitive environment values			
6. PRIMARY SENSITIVE ENVIRONMENTS: Suit the Sensitive manager subject			<u>ी</u>
			5x
(PA Table 5) and wetland acreage values if A Table 67 to exposure from air hazardous substances (see Air Pathway Criteria List, page 21).			
to exposure from air nazardods substance to	•		% {
Sensitive Environment Type Value			***
3073011			
			₩
			₩.
	• ,		》
Sum =		900000000000000000000000000000000000000	
The state of the s			1
7. SECONDARY SENSITIVE ENVIRONMENTS: Use PA Table 10 to determine		1,25	
7. SECONDATI SERVICE environments.		(5)	
the score for secondary sensitive environments.	. (51		
1	, 5	5	
8. RESOURCES: A score of 5 is assigned.			
			.
_		153.25	2
Τ = [
	•		
WASTE CHARACTERISTICS	. (100 or 321	30.0.588.7900136176	âu
WASTE CHARACTERISTICS	. 1100 00 341		3334 880
9. A. If you have identified any Primary Targets for the air pathway, assign the waste			
9. A. If you have identified any Primary Targets for the an ed 22 whichever is			#
characteristics score calculated on page 4, or a score of the			\$00.1 \$1.0
GREATER; do not evaluate part B of this factor.	(100,32, ar 18)	(100.32, ± 18)	
GREATER, 60 Hot Granate Part =	1,50,000 - 101	l l	1
B. If you have NOT identified any Primary Targets for the air pathway, assign the		20	
B. If you have NOT identified any Fitting Largette to		1 24	
waste characteristics score calculated on page 4.		1	
			1
		32	ł
WC =			·
· · · · · · · · · · · · · · · · · · ·		•	
	ladoret	te a maximum at 1001	1
	l :		1
LR x T x WC	_	_	ł
AID DATHWAY SCURE:	2	97	l l
82.500 \		1 1	1
\cdot	l		

PA TABLE 8: VALUES FOR SECONDARY AIR TARGET POPULATIONS

		Nearost	usaus ta utaas	***		Р	opulation	Within Dis	tance Cat	адолу				\$ \$40 \$ \$80\$ d.c.	
		Individual	1	11	31	101	301	1,001	3,001	10,001	30,001	100,001	300,001	1,000,001	Population P
Distance		(choose	to	to	to	to	to	to	10,000	10 30,000	100,000	300,000	1.000.000	3,000,000	Value
from Site	Population	highest)	10	30	100	300	1,000	3,000	10,000	30,000	700,000				
Onsite	_0_	20	1	2	5	16	52	163	521	1,633	5,214	16,325	52,136	163,246	0_
	28C	20)	1	1	1	(4)	13	41	130	408	1,303	4,081	13,034	40,811	<u>4</u>
>0 to ¼ mile >¼ to ¼ mile	5276	2	0	0	1	1	3	9	(28)	88	282	882	2.815	8,815	28
> % to 1 mile	5319	1	٥	. 0	. 0	. 1	. 1	3	8	25	83	261	834	2,612	8
> 1 to 2 miles	31643		0	0	0	0	1	1	3	8	(27)	83	266	833	27
> 2 to 3 miles	איסיד.	. 0	0	0	0	0	1	1	. 1	4	12	38	120	376	38
·	183586	. 0	0	0	0	0	0	1	1	2	7	(23)	73	229	
>3 to 4 miles	Individual =	20		.L	J				<u></u>	<u> </u>			-	Score =	128

PA TABLE 9: AIR PATHWAY VALUES FOR WETLAND AREA

Welland Area Assigned Value					
Less than 1 acre	. 0				
1 to 50 acres	25				
Greater than 50 to 100 acres	75				
Greater than 100 to 150 acres	125				
Greater than 150 to 200 acres	175				
Greater than 200 to 300 acres	250				
Greater than 300 to 400 acres	350				
Greater than 400 to 500 acres	450				
Greater than 500 acres	500				

PA TABLE 10: DISTANCE WEIGHTS AND CALCULATIONS FOR AIR PATHWAY SECONDARY SENSITIVE ENVIRONMENTS

Distança	Distance Weight	(from PA Table 5 or 9)	Product
Onsite	0.10	x 1 to 50 kiche meremas ?<	
0-1/4 mi	0.025	x x	
1/4-1/2mi	0.0054	x x	
L	<u> </u>	1 ×	-10

Total Environments Score =

l

S	S²
4.3	18.5
100	10000
43.6	1901.0
29.7	882.
$\sqrt{\frac{S_{gw}^2 + S_{sw}^2 + S_{se}^2 + S_a^2}{4}} =$	56.6
	4.3 100 43.6

RECOMMENDATION

NO FURTHER ACTION IS RECOMMENDED FOR THIS SITE BECAUSE OF THE HIGHLY THOUSTREAKERD MATURE OF THE GURROUNDEND WREEK MIND DRENKERD WATER TO NOT PARENTENED.

CII	8.4	RA	٨	RY	

JMMARY	YES	NO
 Is there a high possibility of a threat to nearby drinking water wells by migration of hazardous substances in ground water? 	٦	
A. If yes, identify the wells recommended for sampling during the SI.		
B. If yes, how many people are served by these threatened wells?		٠
 Are any of the following suspected to have been exposed to hazardous substances through surface water migration from the site? 		
A. Drinking water intake		
B. Fishery		3 1
C. Sensitive environment: wetland, critical habitat, others D. If yes, identify the targets recommended for sampling during the SI.	-	
		O.
3. Do people reside or attend school or day care on or within 200 ft of any area of suspected contamination?		· · · · · · · · · · · · · · · · · · ·
4. Are there public health concerns at this site that are not addressed by PA scoring considerations?If yes, explain:		_
	_	

Facility Name: DEFRECHS	INDUSTRIAL SITE
Yacility hame.	RRY, BERGEN COUNTY
Location: LETTLE FE	erd.
EPA Region:	
Pagent(4) in Charge of the F	ACILITY: FRANK NOTARANGELO
reradit(3)	BELL FOURGEREL
:	/
	2125/91
Name of Reviewer: KAREN H	TERIN- Date: 3/25/91.
	·
General Description of the	in a nile continue
(Por example: landfill, su	rface impoundment, pile, container; cas; location of the facility; or concern; types of information
types of hazardous seed mai	or concern; types of largement
TNDSTIEN	L FS A 8.76 - MCRE VACANT
DIENTERS	som the clerk for the
LOT 1989 1ETTER !	TO WITCH
LETTLE FERTY PLANE	THE BOARD TO THE NUTSER
1 101A	S THE SITE OF W
STATES	WARTOUS CHEM FLYALS
TREATMENT PLANT	AND VARIOUS CHEM FLUALS
WERE DUMPED ON	THIS STIE!
Scoras:	s _{gw} = 1.57 s _{sw} = 3.08s _a = 0)
luun an	
PRO 54 = 5.28	Sz= = 4.47 Sz= -7.97 Sz = 0)
PRO SH .	3"

	Ground Water Route Work Sheet					
· ·	Rating Factor		Aulti- plier	HRS	Max. Score	PRO
<u> </u>	Observed Release	<u> </u>	1	0	45	45
		is given a score of 45, proceed to line 4. is given a score of 0, proceed to line 2.				
2	Route Characteristi Depth to Aquiler	- 6	2	2	6	
	Concern Net Precipitation Permeability of th		1	3, 2,	3 3	
	Unsaturated Zon Physical State	0 1 2 3	1	3	3	
		Total Route Characteristics Score		10	15	
]	Containment	0 1 2 3	1	3	3	
•	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	nca 0 3 6 9 12 15 18	1	9	18	। 1 <u>ड</u>
		Total Waste Characteristics Score		10	26	19
5	Targets Ground Water U Distance to Nea Well/Population Served	est) (0) 4 6 8 10	3	3 O	9 40	3
		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	•			
		Total Targets Score		3	49	3
E		multiply 1 x 4 x 5 nultiply 2 x 3 x 4 x 5		900	57.330	2565
7	Divide line 6	by 57,330 and multiply by 100	Sgw	- 1.4	57	4.47

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Surface Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi- plier	HRS	Max. Score	PRO
1 Observed Release	(a) 45	1.	0	45	45
If observed release is give	in a value of 45, proceed to line 4 in a value of 0, proceed to line 2.	•			
Physical State	0 1 2 3	1 1 2	0 7 6 3	3 3 8 3	
:	Total Route Characteristics Score		11	15	
3 Containment	0 1 2 3	1	3	3	
Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	0 3 8 9 12 15 B 0 0 2 3 4 5 6 7	8 1	9	18 8	18,
	Total Waste Characteristics Score	•	10	25	19
Surface Water Use Distance to a Sensitive Environment Population Served/Disto Water Intake Downstream		3 2	0 (4	9 6 40	
	Total Targets Score		6	55	6
6 If line 1 is 45, multiple 1 is 0, multiple		,	1980	64,350	5130
	350 and multiply by 100	Ssw	- 3.0	18	7.97

AIR ROUTE WORK SHEET					
Rating Factor	Assigned Value (Circle One)	Multi- oiler		Max. Score	PRO
1 Observed Release	45	, 1	0	45	0
Date and Location:					
Sampling Protocot:					-
If line 1 is 0, the S =	0. Enter on line 5.				,
Waste Characteristics Rescrivity and	0 1 2 3	1		3	
Incompatibility Toxicity Hazardous Waste Cuantity	0 1 2 3 0 1 2 2 4 5 8 7	8 1		. 9	•
	Total Waste Characteristics Score	1		20	
Targets Population Within Living Radius Clatance to Sensitive Environment Land Use) 0 9 12 15 18) 21 24 27 30 0 1 2 3	, 1 , 2 , 1		30 5 3	
				١	
			· · · · · ·		.
	Total Targets Score			39	1
A Multiply 11 x 2 x	3			35,10	
Divide line A by 25	.100 and multiply by 100 S 2 =			0.	<u> </u>

HRS	S	s²
Groundwater Route Score (Sgw)	1.57	2,46
Surface Water Route Score (Saw)	3.08	9.49
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		11.95
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		3.46
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		2.00

WORKSHEET FOR COMPUTING SM

PRO	S	s²
Groundwater Route Score (Sgw)	447	19.98
Surface Water Route Score (S _{SW})	7.97	63.52
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		83.50
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		9.14
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		5.28

worksheet for computing $\mathbf{s}_{\mathbf{M}}$